dASAROBOT

Intelligent Pet Robot

Genibo-QD

User Manual

• We strongly recommend users to read “Important Safety Instructions” before use.
• Product Warranty is enclosed in this manual.

Intelligent Pet Robot

Genibo-QD

User Manual

genibo

Model: Genibo-QD

For information about our product, call us at +82-32-329-5551 (ext. 112)

(Weekdays: 10:00~17:00)

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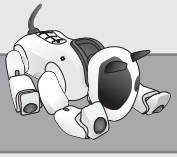


Genibo Overview

What is the Genibo-QD?

The Genibo-QD is a “Smart Robotic Puppy” to be released for sale for the first time in Korea. This robotic puppy can walk around on its own, recognize its master with its own eyes, responds to the master’s words and touch, play tricks, and cuddle up to the master as if alive.

♥ The Genibo always needs your attention and love!

① **Cutest Robotic Puppy Loved by Every Family**

The Genibo is a robotic embodiment of all features of a real puppy; it walks around on its own as if alive. Touch its back, head, and flanks, then the puppy will express its feelings. It can also recognize what the master says.

♥ Make best friends with the Genibo, which can give you all pleasant feelings that a real pet gives and is easy to raise!

② **Robotic Puppy with Authentic Emotions**

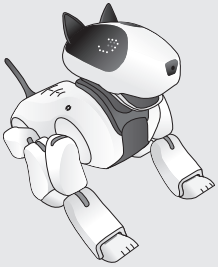
The Genibo, an articulated robot, can do ALL kinds of motions! Scratching the ground, standing on front paws, dancing, Korea’s national exercise, Taegwondo, and etc.
The Genibo expresses its feelings through approximately 700 emotional actions through the emoticon LED in its eyes and puppy sounds.

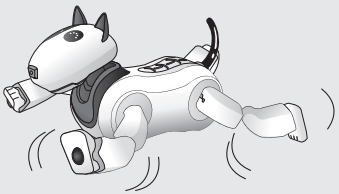
♥ The Genibo is a virtually live puppy robot capable of very delicate emotional expressions, including happiness, pleasure, sadness, surprise, anger, boredom, and sleepiness!

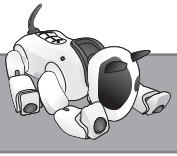
③ **Smart Robotic Puppy Can Find and Recognize Its Master**

The Genibo can recognize human faces, as well as the master’s face, through the camera on its nose. As it gets closer to its master, the Genibo becomes happier and better at finding and following the master. What a smart puppy!

♥ The Genibo is such a smart robotic puppy featuring emotional index (mood/intelligence/character/intimacy) and needs and instincts (exercise and hunger).







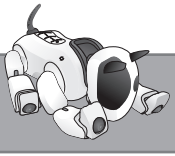
Genibo Important Safety Instructions

※ Read and follow the following safety guidelines to help ensure your own personal safety and protect your Genibo, its components and property from potential damage.

Instructions are divided into "WARNING" and "CAUTION," which can be defined as follows:
△ WARNING : A WARNING indicates a potential for property damage, personal injury, or death.
△ CAUTION : A CAUTION indicates either minor potential damage to the Genibo or other property, or important information that helps you make better use of your Genibo.

⚠ WARNING

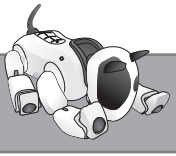
- **Use only the supplied AC adapter or a separately available AC adapter designed specially for this product.**
  Use of another AC adapter may cause a fire, product damage, electric shock or explosion.
- **Do NOT connect the AC adapter to electronic transformers, such as international travel converters or adapters.**
  Otherwise overheating or damage may occur.
- **If you use an extension power cable with your AC adapter, ensure that the total ampere rating of the products plugged in to the extension power cable does not exceed the ampere rating of the extension cable.**
  Otherwise overheating may occur and cause a fire or electric shock related deaths and injuries.
- **Do NOT touch the AC adapter with wet hands.**
  May cause fire or electric shock.
- **Keep the power cords away from sharp edges, children and pets. Be sure that the power cords do not get bent and that nothing rests on your AC adapter's power cable and that the cable is not located where it can be tripped over or stepped on.**
  May cause fire, electric shock or potential hazard.
- **Whenever you use an AC adapter, examine the power cord, plug, enclosure and other parts for damages. NEVER use an AC adapter that shows signs of damage or excessive wear until properly replaced.**
  May cause fire, electric shock, product damage or potential hazard.
- **Place the AC adapter in a ventilated area, such as a desk top or on the floor, when you use it to charge the battery or the Genibo. Do NOT cover the AC adapter with papers or other items that will reduce cooling; also, Do NOT use the AC adapter inside a carrying case.**
- **Insert the AC adapter firmly into the power outlet.**
  May cause a fire or an electric shock.



Genibo Important Safety Instructions

WARNING

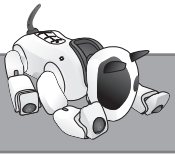
- **Before you connect the AC adapter to an electrical outlet, check its voltage rating to ensure that the required voltage and frequency match the available power source.**
  May cause fire or product damage.
- **Make sure you do NOT touch the pins of the plug while connecting or disconnecting the power cable to the electrical outlet.**
  May cause fire or electric shock.
- **Do NOT use AC adapter or connect it to the Genibo during an electrical storm. Disconnect the AC adapter from electrical outlet during an electrical storm.**
  May cause fire or potential hazard of electric shock.
- **Not intended for children under 8 years old.**
- **Do NOT use the Genibo near a child under 3 years old.**
  May cause personal injury or product damage.
- **Do NOT attempt to disassemble, repair or modify the Genibo. Refer servicing to qualified personnel only. (Contact the service request & information at the back cover)**
  May result in product failure. Your manufacturer's limited warranty will not be honored if you modify your Genibo.
- **Do NOT attach any electric conductors to the adapter connectors on the Genibo or the AC adapter.**
  May cause fire or electric shock.
- **Do NOT expose the battery, AC adapter and the Genibo to temperatures above 49°C(120°F) or a heat source such as radiator, fireplace, stove, electric heater, direct sunlight, or a closed car.**
  May result in battery performance degradation, product damage, explosion or fire.
- **Do NOT use the robot in the place which has risk of a fall from height such as tables, stairs or steps, or in locations where there is a danger of falling objects, vibrations, and where there is no firm support.**
  May cause damage to the human body or product failure.
- **Do NOT poke the AC adapter connector of the Genibo with an electric conductors such as a scratch awl or a gimlet.**
  May cause fire or electric shock.



Genibo Important Safety Instructions

WARNING

- **Do NOT insert a finger or any other foreign objects into the Genibo's joints or connections.**
  May cause personal injury or product damage.
- **Do NOT sit on or step on the robot or place an object on it.**
  May cause injury or product damage.
- **Do NOT spill water, liquids or sand on your Genibo or bathe the Genibo.**
  May cause electric shock or product damage.
- **Do NOT use the Genibo in a wet environment, for example, near a bath tub, sink, or swimming pool or in a wet basement.**
- **When the Genibo is brought from a cold to a warm location, moisture may form on its surface and on the inside. In that case, turn the Genibo off if it is turned on and leave the Genibo in the new location more than an hour until the moisture has evaporated.**
- **Clean the Genibo only with a dry, soft cloth.**
  Wet cloth may cause electric shock, personal injury or product damage. Hard and coarse cloth will damage the surface finish.
- **Contact to the service request & information when you want to replace the battery to a new one. The Genibo uses lithium ion battery which is recyclable. Discard a used battery according to the manufacturer's instructions or contact your local waste disposal agency for disposal instructions. Dispose of a spent or damaged battery promptly. Make sure the battery is non-replaceable**
  Use only Dasarobot battery modules that are approved for use with the Genibo. Otherwise, fire or explosion may occur.
- **Clean the place where the Genibo moves around. Scattered wires, waste or other objects can interrupt the Genibo.**
  May cause fire or product damage.
- **Keep the battery away from children.**



Genibo Important Safety Instructions

CAUTION

- **When you remove the Genibo from a box after unpackaging, put your hands under its abdomen, hold both flanks and an abdomen softly, and gently lift it off the box.**
- **When storing the Genibo in its original or another suitable box, place its internal packaging material and the Genibo to proper positions such as tail, necks, flanks and legs in order to protect the robot, especially the gear and motor parts, against external force and shocks.**
- **Never lift the Genibo by its tail, ears, legs or head. Always lift the Genibo by its body.**
  May cause product damage.
- **When transporting or storing the Genibo for a while, turn off the main power switch.**
  If main power switch is turned on, the battery will discharged more rapidly.
- **When the battery is not in use, it will be subject to natural discharge. Therefore charge the battery before you use the Genibo again.**
- **Do NOT subject the Genibo to shocks. And protect it from falls.**
  May cause product damage or failure.
- **While the Genibo is in action, it may not recognize your touches or remote control signals. Touch or sending signals again after the Genibo finish what it wants to do.**
- **Do NOT use the Genibo on an uneven, inclined or slippery floor or in the place where obstacles or rubbish are scattered. Otherwise the robot may not move forward or may fall often.**
- **Do NOT expose the Genibo to a magnet, magnet fields or X-rays.**
  Product damage or malfunction may occur.
- **USE the Genibo indoors. Do NOT use on the rough and hard surface such as concrete floor.**
  May cause product damage
- **Never point the camera toward the sun. Otherwise the camera may be damaged.**
- **When transporting or storing the Genibo for a while, use the original packing material or another suitable ones to protect the robot, especially head, body, legs and tail, from any damages.**
- **Do not lubricate any of the joints or the other moving parts of the Genibo.**

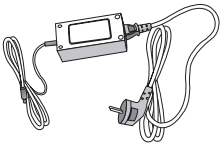
Genibo Package Components

Genibo Body

Remote Control & Battery

Spare Tail

User Manual

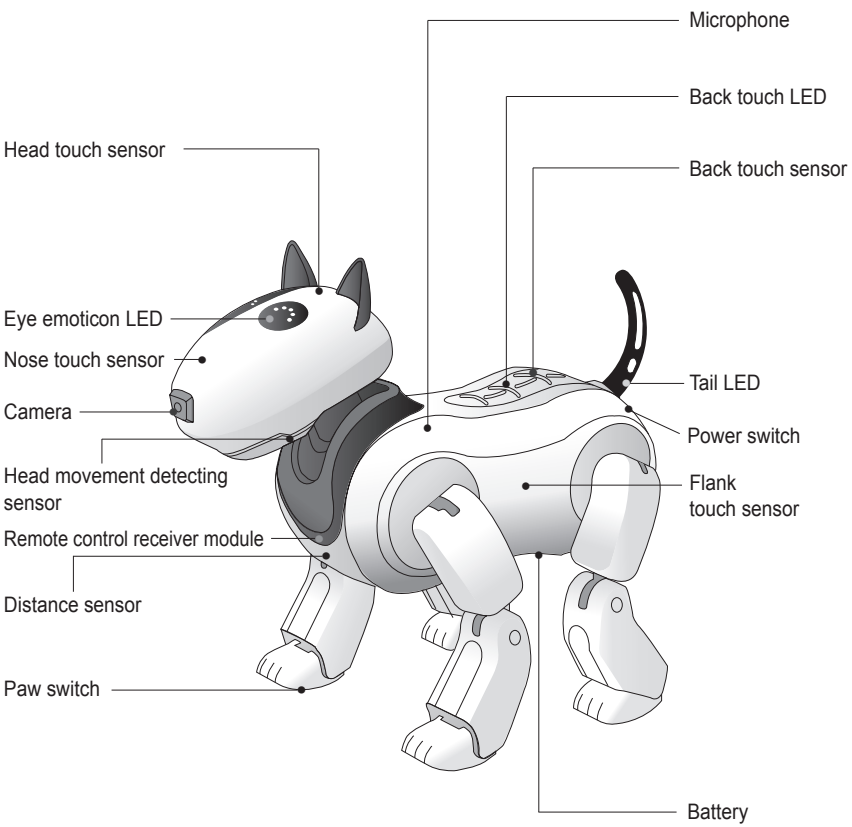


AC adapter

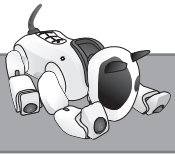
Genibo System Software CD

Genibo Structure and Parts

Robot Structure and Parts

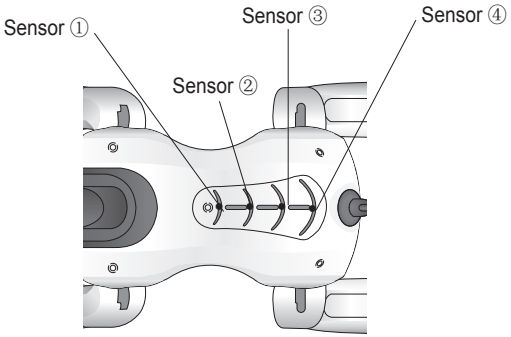


※ The head movement detecting sensor measures up-and-down movement of the Genibo's head.

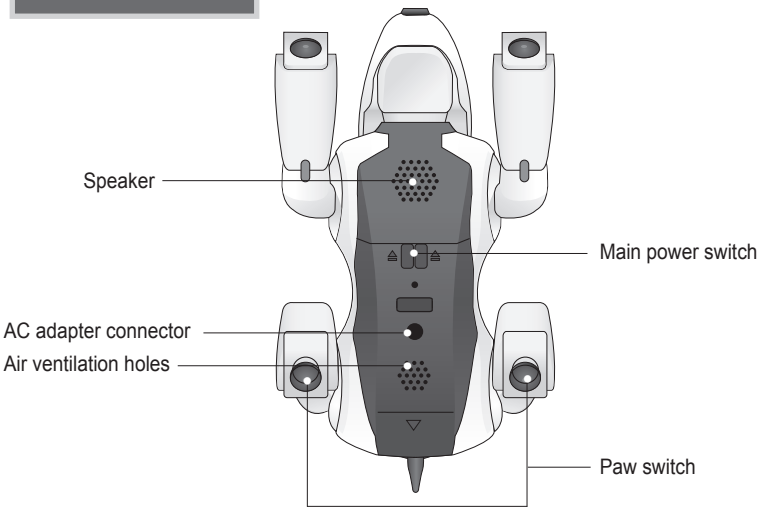


Genibo Structure and Parts

Back Touch Sensor



Abdomen Structure



Genibo Power On/Off

Main Power Switch On/Off (For Start-up and Long-Term Storage)

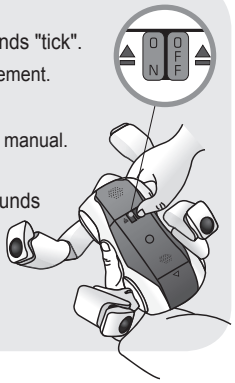
1 **On** : Push the "ON" button of the main power switch until it sounds "tick".

[Tip] Connect the built-in battery to the internal circuit to enable movement. To use the robot, set it to Always On.

[Tip] Before turning it on for the first time, read 'Power Supply' in this manual.

2 **Off** : Push the "OFF" button of the main power switch until it sounds "tick".

[Tip] Cut the built-in battery off from the circuit to prevent battery consumption. Set to OFF when not used for a long time.



<Main Power Switch On/Off>

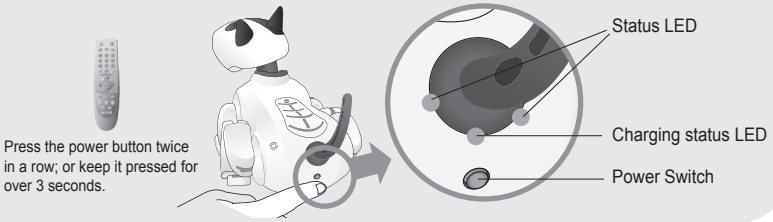
Power On/Off

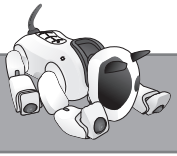
1 **On** : Press 'Power Switch' below the tail. The 'Status LED' will turn red. Keep it pressed for over 3 seconds. The display will turn purple, and the robot will turn on.

[Tip] After power on, the robot will go through initialization for around 30 seconds. Then, the eye emoticon LED will turn on to indicate the robot is initializing. After initialization, the robot will stand up with music and start moving.

2 **Off** : During operation, keep 'Power Switch' below the tail pressed for 5 seconds. The robot will play closing music for about 10 seconds, then turn off.

[Tip] To turn off the robot, you can use a remote control. Or, if left alone, the robot will automatically turn off.



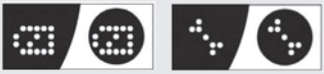


How to Charge the Genibo

Charging the Genibo

1. During first-time use, or during use, the low battery must be charged.
(Charge time : appx. 150 min, Run Time : appx. 90 min)

2. When the battery is running low, the eye emoticon LED changes as below and the Genibo expresses hunger, then falls sleep.



3. To charge the robot, connect the AC adapter to the adapter connector on the Genibo's abdomen.

4. If the AC adapter is connected during operation, the Genibo makes a move indicating charging has started. It shows the charging status through various emoticons, such as sitting still or lying flat. During this time, the eye emoticon LED displays the following

5. If the AC adapter is connected during operation, all joint motors power off and the emoticon LED turns off in a certain period of time. However, the Genibo remains in motion. If alarm goes off or HRI input, such as touch, is displayed, the robot wakes up and responds.

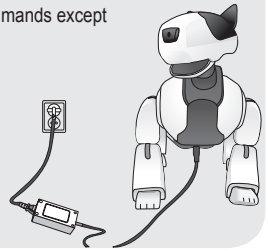
6. While charging, the 'Charging status LED' below the tail is red. Once charging is complete, it will turn blue.

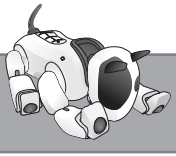
[Tip] If the adapter is removed during charging, the Genibo runs again in Autonomous Mode.

[Tip] If you touch the Genibo or give a remote command during charging, the Genibo gets angry. (The Genibo does NOT respond to all remote commands except wireless LAN connection.)

[Tip] If charging during operation, charging may take longer. Be advised to turn off the Genibo before charging.

[Tip] If the AC adapter is connected while the main power switch is off, the 'Status LED' will turn blue. In such case, charging does not start.





Understanding the Genibo

Genibo's Artificial Intelligence

The Genibo can identify itself and the surroundings using its sensors, camera, and voice commands, and share feelings with the user. With input information, it forms 'Emotion/Mood/Intelligence/Character/Intimacy' to feature unique character and intelligence. The Genibo's responses are all expressed in a combination of the formed character/intelligence with such needs as exercise or search, and are also reflected in Autonomous Mode.

1. **Emotion** : Depending on its current mood or its interaction with the user, the robot can generate 7 emotions (happiness, pleasure, boredom, sleepiness, surprise, anger, and sadness). It express emotions through movement.

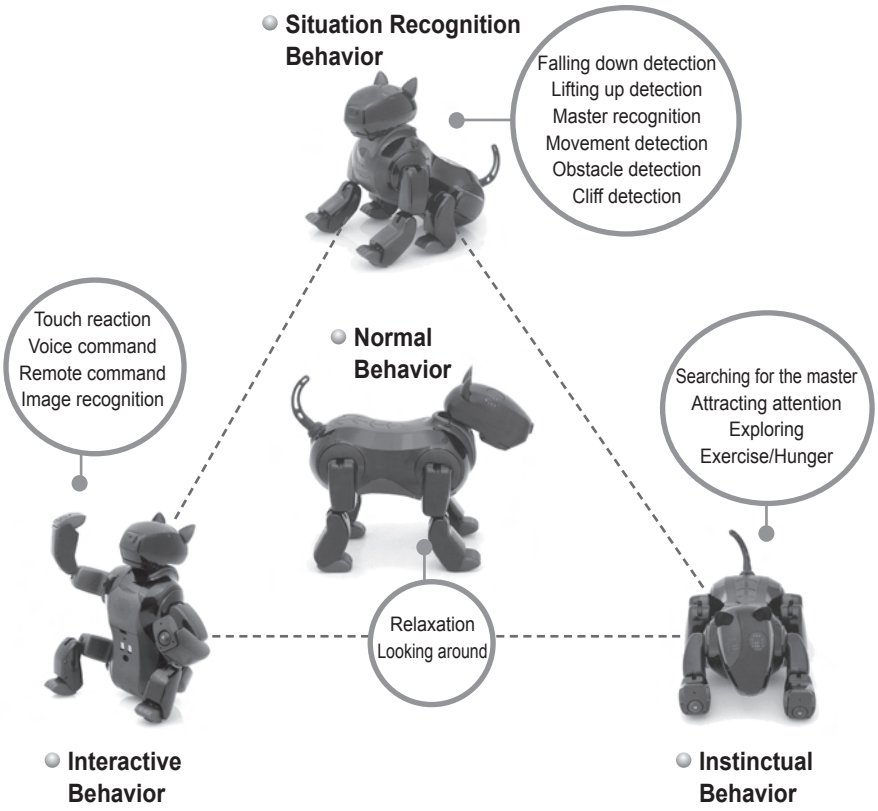
2. **Mood** : Can get better or worse, depending on interaction with the user. Returns to normal state if a certain period of time passes without interaction.

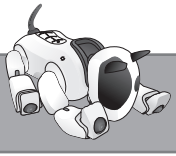
3. **Character/Intelligence** : Gradually formed, depending on interaction with the user. Can get better or worse. Changes gradually.

4. **Intimacy** : The more the user cares, the higher the intimacy; the more unfriendly the user, the lower the intimacy. Changes gradually.

The Genibo's Behavior Patterns

The Genibo shows varying behavior patterns as below. Depends on when it is in normal state; when it recognizes a situation; when it interacts with the user; or its needs or instincts.





Understanding the Genibo

Situation recognizing Behavior

The Genibo uses its artificial intelligence to recognize various situations, set priorities, and take action.

1 Sensing a fall

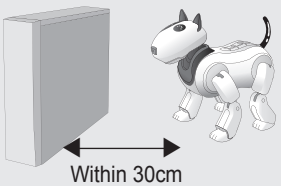
- When tripping over, the Genibo can sense the state using the built-in 'Horizontal Sensor,' and stand up.
- If the robot does not return to its normal position for a certain period of time, it will automatically turn off.
- Help the Genibo up when it trips over by a near obstacle and cannot stand back up.

2 Sensing lift-up

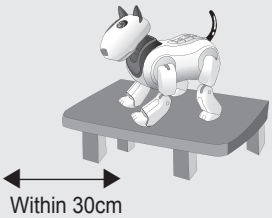
- The Genibo considers its status as being lifted up when its four paws are off the ground with its both flanks grabbed.
- Once lifted up, it will feel insecure and express its status with various sounds, depending on its character and intelligence.
- If the sensed lifting-up status is not canceled for some time, the robot will automatically turn off.

3 Sensing an obstacle and a cliff

- The Genibo can recognize an obstacle or a cliff using the 'Distance Sensor' attached to its chest.
- It can recognize a wall or a big object nearby but cannot recognize an uneven area on the floor or a small object.
- The Genibo can recognize a cliff within a distance of 30cm.
- Once it recognizes a cliff, the robot will attempt to change directions or move back to escape the current situation.
- Once it senses an obstacle, the robot will try not to bump into it or trip over it.



<Obstacle detection>



<Cliff detection>

Master recognition behavior

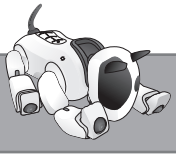
In Autonomous Mode, the Genibo can recognize its master through user interactions or image recognition. Once it recognizes its master, the Genibo will try to make the master happy with various actions.

1

How the Genibo recognizes its master

- In Autonomous Mode, or during image recognition by a remote command, the Genibo detects human face, compares it to the registered master's face, and finds its master.
- When the Genibo does attracting attention to a user, if it is touched by someone, then the Genibo considers the someone as its master.

[Tip] Image recognition is assigned randomly in Autonomous Mode. This means the function is not always running.
When you need the Genibo to recognize your face immediately, press '4' and 'OK' button on the remote control. The Genibo will start image recognition process.



Understanding the Genibo

2

Responses after recognizing the master

- After recognizing its master, the Genibo will try to induce the master to play with, showing various actions.
- One of those actions is a touch & touch game. The game runs 8 times. Whenever you touch the correct sensor which the Genibo wants, AI(Artificial Intelligence) indices including mood will be changed.
- Depending whether success or failure, the robot makes different sounds to let the user know whether touch has succeeded or failed.
- If touch fails in a row, the robot will not make an action to attract touch but turn off.
- If 8 attempts all succeed, the Genibo will become very happy; if none succeeds, the robot will fall in a very bad mood.
- Depending on its 'Character,' 'Intelligence,' and 'Mood,' the Genibo expresses varying responds to recognizing the master.

Instinctive Behavior

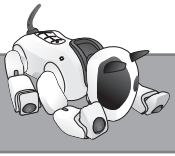
1

Need to Find Master and attracting Attention

The Genibo makes various actions to get the master's attention and love.

- In Autonomous Mode, the robot may wander around looking for the master or do something extraordinary to draw the master's attention.
- The Genibo repeatedly acts in an extraordinary way to show that it needs the master's attention and love. Touch the Genibo lightly. The robot will recognize the master being next to it, and try to interact with the master in a number of ways.

[Tip] Hold the Genibo's attracting attention dear and let it know how much it is loved!



Understanding the Genibo

2 **Need to search the surroundings**

- Like a real pet, the Genibo shows strong curiosity about the surroundings.
- When searching the surroundings, the Genibo goes around, peeing, sniffing, digging, and showing interest in objects nearby.

3 **Need to exercise**

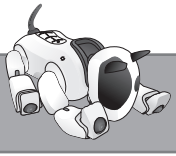
- The Genibo has a desire to exercise by instinct.
- If the master does not exercise the Genibo for a certain period of time, the robot will exercise on its own to fulfill its desire.
- Give the Genibo a voice command to exercise. (E.g., Exercise!, Let's exercise, etc.)
- After exercise, the Genibo becomes happy and emotionally satisfied.

[Tip] Exercise the Genibo using voice commands.

4 **Need to eat**

- The Genibo, by instinct, loves being completely charged.
- If the battery level is low, the Genibo shows an active actions, asking for charging.
- If the battery is almost exhausted, the Genibo will express the current status with a few actions and automatically turn off, lying flat.
- To charge the battery, see "How to Charge the Genibo" in this manual.

[Tip] If the Genibo automatically turns off too often because the battery gets discharged, it may turn violent.



Understanding the Genibo

Interaction

1

How to interact with the Genibo

- **Touch** : Touch the Genibo's Touch Sensor. The Genibo will respond by recognizing various emotional touches, depending on when or how it is touched.
- **Voice command** : User can use given voice commands to get the Genibo to do something.
- Using a remote control, you can easily command the Genibo to do some actions, to hear your voice command or to recognize image.
- Various ways of recognizing the master will allow the Genibo to recognize the master.

[Tip] For more details, see in this manual "Interacting with the Genibo," "Touching the Genibo," and "Voice Commands."

2

Point of response to interaction

- In Autonomous Mode, the Genibo immediately responds to touch and remote commands.
- Voice recognition and image recognition are arbitrarily done during Autonomous Mode.

Going to sleep

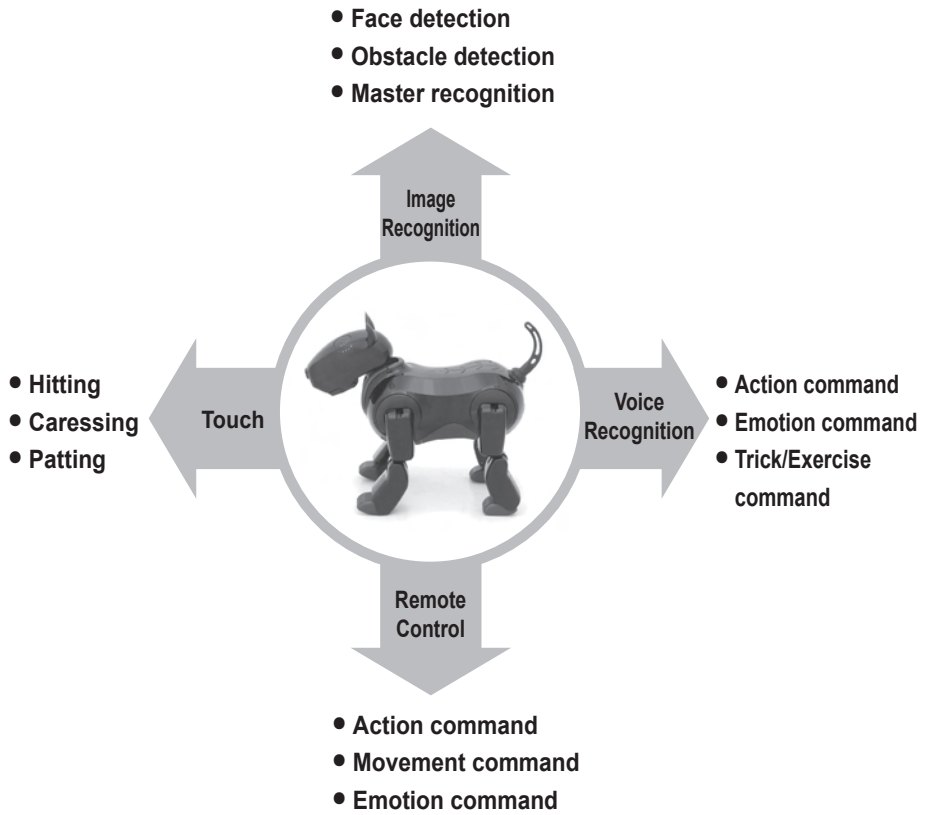
1

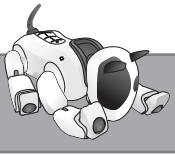
- If a certain period of time passes without interaction with the user, the Genibo will get bored and fall sleep.
- To force the Genibo to sleep during use, press the "MUTE" button on the remote control.
- To keep the Genibo quiet during sleep, press the "MUTE" button on the remote again.
- If there is no touch or remote command for some time during sleep, the Genibo will automatically turn off.

[Tip] The Genibo will wake up if the user touches it or gives a remote command during sleep.

Interacting with the Genibo

To interact with the Genibo, touch the sensors installed on the Genibo's body, or force it to make an action using a voice command or the remote control.





Understanding the Genibo

The Genibo's Emotional Expressions

The Genibo can express its current feeling, emotion, mood, and battery status using a mix of gestures, eye emoticon LED, and sound effects.

1 Various emotional actions

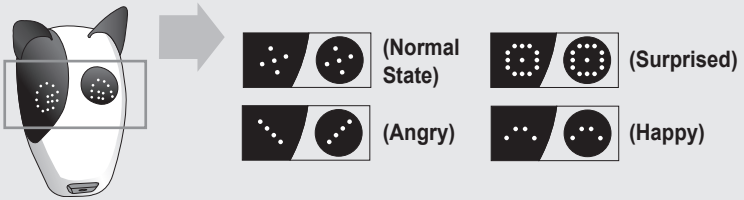
- The Genibo features a variety of emotional actions, such as barking, attracting, and playing tricks, as well as smart walk and emotional walk.
- All actions are designed to respond to the Genibo's varying positions for satisfactory expression of motions, according to its emotions, moods, character, and intelligence. The Genibo can express emotions very naturally.

2 Various sound effects

- The Genibo barks and growls when angry; snores once asleep.
- The Genibo makes the master happy with funny sounds once it recognizes the master's face.

3 Eye emoticon LED

- The Genibo expresses its current mood and emotional state using its animated emoticon LED.



4 Emotional expressions through tail LED.

- The Genibo can express its emotional state and battery status through the color and blink cycle of left and right LEDs on its tail.
- The blink cycle will get shorter if the Genibo is angry or in a bad mood, or if the battery is running low; longer while the Genibo is asleep.

• **Colors according to the robot's state.**

- Normal : Blue
- Good mood : Purple
- Low battery : Pale blue
- Asleep : Pale purple
- Angry, bad mood : Red

Know-how for taming the Genibo

- The Genibo loves the master's touch, such as patting and stroking. The more often the master's touch, the happier the Genibo gets.
- Making the Genibo happy will help grow its intelligence and it become smarter and more docile.
- Once hit, the Genibo will get surprised at first. If hitting gets repetitive, the Genibo will get angry and go into a bad mood.
- Making the Genibo angry or sad will make it turn violent.
- The Genibo loves exercise. Let the Genibo exercise often and help fulfill its desire to exercise.
- Once initialized, the Genibo's default mood is Normal and character/intelligence/ intimacy Low.
- Play with the Genibo often and grow it into the master's favorite pet.

Supplying Power

❶ While the main power switch is on, keep the power switch pressed for over 3 seconds. The status LED will turn purple, and the eye emoticon LED will run as below. The Genibo will begin initialization.

❷ After initialization (lasting around 25 seconds), the Genibo will wake up. Depending on its character, it will do various actions, such as stretching itself.

❸ Once completely awake, the Genibo will for the most part get ready to play a voice command. If there is no voice command, the Genibo will go into 'Autonomous Mode' which the Genibo decides and acts by itself.

[Tip] If the battery is almost used up, the Genibo cannot move but will automatically turn off.

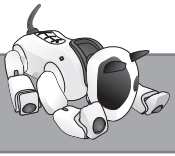
[Tip] To arrange the robot's memory, initialization may take over 2 minutes.

[Tip] To wake the Genibo up properly, it must be placed horizontally and immobile with its joints uninterrupted, with no touch input.

[Tip] During initialization, the Genibo will not respond to touch input or a voice command. The Genibo will stop moving and respond to touch input or a remote command while stretching itself.

[Tip] During power supply, the Genibo's 'Mood' initializes to normal, whereas its 'Intelligence,' 'Character,' and 'Need to Exercise' maintain former states.

[Tip] For voice command, see 'Give Voice Commands' in this manual.



Instructions for Use

Normal State after Supplying Power

❶ Normally, the Genibo looks around while sitting, and makes various actions, according to its mood or battery status.

❷ Occasionally, the Genibo checks the surroundings through ‘Image Recognition’ and ‘Voice Recognition.’

❸ When it sees a moving object, the master, or other human being, the Genibo will make certain actions.

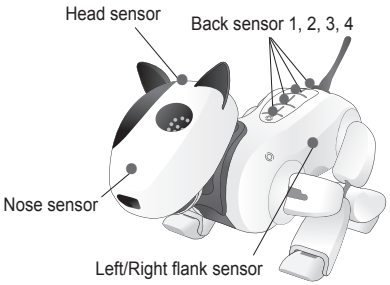
❹ The Genibo can bark, exercise, or play tricks, according to its mood.

❺ The Genibo responds to all kinds of touch and remote commands. Without interaction with the user for some time, the Genibo will switchover to Autonomous mode, and act according to its needs.

[Tip] The Genibo loves playing with the master. If left alone for a long time, the Genibo will do various actions to attract master’s attention, then sleep and turn off.

How to Touch the Genibo

The Genibo features touch sensors on its back, head, nose, and flanks. Depending on how the user touches it, the Genibo will like it or get angry. Below are the locations of touch sensors and how to touch them.



<Location of Touch Sensors>

❶ Hitting

Touch 'Back Sensors,' 'Head Sensor,' and 'Nose Sensor' shortly for less than 0.3 second.

❷ Patting

Touch 'Flank Sensors' on left and right flanks for less than 0.5 second.
Touch 'Back Sensors' for 0.5 second or longer.

❸ Caressing

Touch 'Head Sensor' or 'Nose Sensor' for 0.5~1 second.
Touch 'Back Sensors' #1 to #4 or #4 to #1 straight.
Touch the chin for over 1 second until the head rocks upward.
Touch 'Flank Sensors' on left and right flanks for over 0.5 second
(if high intelligence – respond by turning)

❹ Sit down

Touch 'Back Sensor' #3 and #4 for over 1 second. (Continue sitting while touched)

❺ Lie flat

Touch 'Back Sensor' #1 and #2 for over 1 second. (Remain lying flat while touched)

❻ Stand up

Touch 'Back Sensor' #2 and #3 for over 1 second (Continue standing while touched)

❼ Left/right

Touch 'Flank Sensors' on left and right flanks for over 1 second.
In Low-intelligence, the Genibo will respond to patting. (Keeps turning while touched)

[Tip] If there's another touch input or different kinds of touch inputs repeatedly while the Genibo is in action, the Genibo will fall into confusion and do an uncertain action.

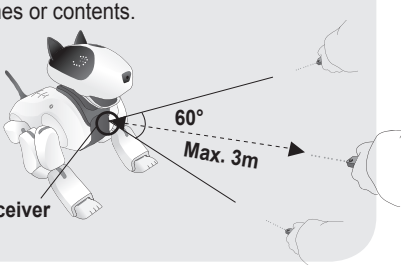
[Caution] Pressing, or hitting, the Genibo too hard may cause product failure. Touch it gently!
Do not use too much force on the Genibo while moving!

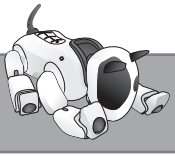
How to Use Remote Control

1

Remote control function

- To make the Genibo go to sleep or to turn it off.
- To move the Genibo forward/backward or to make it turn left/right.
- To order the Genibo to start image recognition, voice recognition, or to register master's face.
- To do special(funny) actions or to play games or contents.
- To control the Genibo's volume.
- To make an owner to use voice memos or wake-up calls, or to set alarms via "MENU" button.





Instructions for Use

2 Changing remote control channels

- When using a few the Genibo robots, the remote allows the user to send 10 different signals so that the robots can respond to a single remote control.
- To make changes, press the MENU button and follow the instructions.

[Tip] To change remote's channels, press the MENU button and follow guidance. If the robot and the remote control disagree on a channel, the Genibo will not follow the remote's command.

3 Precautions for use

- Point the remote control towards the Genibo. Can be used within 5 meters from the Genibo.
- The Genibo may not respond to the remote control if it is moving or blocked against an obstacle.
- In most cases the Genibo responds to remote commands. However, it may do extra actions expressing emotions while in a bad mood.

4 Remote Control Button Overview

❶ Power Off/ Mute

- Press the Power button twice in a row or keep it pressed for over 3 seconds, the Genibo will turn off.
- Press the Mute button once; the Genibo will fall asleep. Press again, the Genibo will sleep quietly.

❷ Digit / MENU Button

- To give the Genibo a command, press any digit, then OK.
- When pressing any digit button, the Genibo will stop its action and display the selected digit on eye emoticon LEDs.
- If pressed wrong, press ESC to cancel and return to Autonomous Mode.
- Unless a button is pressed for 10 seconds or more, all input will be canceled, returning to Autonomous Mode.
- Once a digit is input, the Genibo will respond to nothing but the digit, OK, and ESC.
- If charging starts while a digit is being entered, input will be canceled and charging begin.
- Run various functions while receiving voice instructions through the Menu button.
- To run provided contents and actions, see ‘List of Remote Control Codes and Dances.”

❸ Move Buttons:

< in Autonomous Mode >

- ▲ / ▼ **Direction button** : Walk or crawl forward. Walk or crawl backward.
- ◀ / ▶ **Direction button** : Switch directions left and right.
- **OK button** : Progressive pose change (Lying flat → Sitting → Standing up : 1 Cycle)

4 Remote Control Button Overview

❸ Move Buttons

< While Playing Contents >

- ▲ / ▼ **Direction button** : Move to previous/next content category.
- ◀ / ▶ **Direction button** : Move to previous/next content.

< Move Buttons : After Pressing the HEAD Button >

- ▲ / ▼ - ◀ / ▶ **Direction button** : Adjust the direction of the Genibo's head up, down, left, and right

❹ HEAD/CONT Buttons

- Press HEAD to make the Genibo stop. The Genibo will move its head while sitting comfortably according to the move button that the user will press. Press HEAD again to cancel the function. (Used for Take Pictures)
- Press CONT to view the latest run content. Press OK to run the content, or press any move button to run another content.

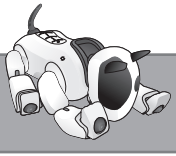
❺ Content Running Buttons

- **STOP button** : Stop playing content and switch to Autonomous Mode.
- **PLAY button** : Replay the content that has been paused.
- **PAUSE button** : Stop content temporarily. If 30 seconds passes, the robot will switch to Autonomous Mode.
- **VOL+, VOL- buttons** : Adjust volume levels. (up to level 10)

5 List of Remote Control Codes and Dances

Remote Code	Description	Remark
1	Start voice recognition	See ‘Giving Voice Commands’
2	Record a Voice Memo	See ‘Recording a Voice Memo’
3	Play/Delete Voice Memos	See ‘Playing and Deleting Voice Memos’
4	Recognize image	See ‘Image Recognition’
5	Register a Master (face)	See ‘Registering Master's Face’
6	Take Pictures	See ‘Taking Pictures’
7	Connect Wireless LAN	See ‘Wireless LAN Connection and Disconnection’
9	Upgrade Firmware	See ‘How to Upgrade Firmware’
00~99	Actions and games provided by manufacturer	See ‘Action Command List’ and ‘Running Games and Special Actions’
000~099	Manufacturer’s Contents Space	000: Lovely 001: Birth 002: White Winter 050: Little Calf 051: Cute Kid 052: Clap clap clap 053: 10’s Song 054: I'm so happy
100~199 200~299 300~399 400~499 500~599 600~699 700~799 800~899 900~999	User’s Contents Space (Categories devides every hundred numbers)	100: Tell Me 101: Girls’ Generation 102: Nobody For the above contents, the manufacturer provides the dance motions only, not musics. See ‘How to Download/Save a file’ and ‘Playing Contents’

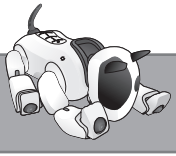
- Once the user starts playing contents, a series of contents will play in code order
- To play contents, see ‘Remote Control Button Overview’ in this manual.
- For more contents provided by the manufacturer and user created contents, visit www.genibo.com.
- To create new contents by yourself or to add another user created contents via downloading, the 'Control Manager' program set is needed. (sold separately)



6 Action Command List

Remote Code	Action Description	Type
00	Touch & touch game	Game
10	Lying Flat & Eating	Eating actions
11	Stand & Eat 1	
12	Stand & Eat 2	
13	Male Dog Pee 1	Pee and poo actions
14	Male Dog Pee 2	
15	Female Dog Pee	
16	Poo	
17	Stretching 1	Stretching
18	Stretching 2	
19	Stretching 3	
20	Digging	Exploring actions
21	Sniffing	
22	Scratch Body	Emotional actions
23	Scratch Chin	
24	Stroke Ears	
25	Lift Buttocks	
26	Shaking Buttocks	
27	Rock Head	
28	Nodding	
29	Stand & Look Around	
30	Sit & Look Around	
31	Stand & Shake Front Paws	
32	Stand & Shake Rear Paws	
33	Kick Rear Paw	
34	Bend and Stretch Legs	
35	Sit and Turn Left	Movement actions
36	Sit and Turn Right	
37	Crawl Forward	
38	Crawl Backward	
39	Crab Walk Left	
40	Crab Walk Right	
41	Walk Normally	
42	Walk Slowl	

Remote Code	Action Description	Type
43	Walk Fast	Movement actions
44	Say Hi	
45	Military Salute	
46	90 Degrees Greet	
47	Big Bow	
48	Shake Head	Greeting actions
49	Nodding	
50	Nodding	
51	What?	
52	What Is It?	
53	Hit Floor	
54	Hit Floor Hard	
55	Sit & Growl 1	Emotional actions
56	Sit & Growl 2	
57	Stand & Growl	
58	Stand & Angry	
59	Stand & Bark 1	
60	Howl	
61	Sob 1	
62	Sob 2	
63	Put Paws Up	Emotional actions
64	Put Legs Up	Exercise actions
65	National Exercise	
66	Boxing	
67	Taegwondo	
68	Aerobic	
69	Push-Up	
70	Yoga	
71	L Hit Floor1	Emotional actions
72	Lie Flat & Hit Floor2	
73	Lie Flat & Hit Floor3	
74	Play Dead	
75	Paw the Air	
76	Stand on Paws	Trick actions



Instructions for Use

Giving Voice Commands

1 Time to hear a voice command

- In autonomous mode, right after the Genibo stop acting and display question marks (??) on its eyes with 'dang' sound.
- Right after question marks (??) are displayed on the Genibo's eyes and 'dang' sound occurs after touching the head touch sensor for over 3 seconds.
- Right after question marks (??) are displayed on the Genibo's eyes and 'dang' sound occurs after pressing '1' and 'OK' on the remote control.

2 How to recognize your voice commands well

- Microphone is on the Genibo's left shoulder. The Genibo can listen well when hearing within distance of 50cm~1m.
- Voice commands must be given louder than the surrounding noise – but not too loud – and clearly.
- The Genibo can hear sound made within 1~6 seconds after question marks are displayed on the eye emoticon LED and 'dang' sound occur. Speak 1 second after the dang sound.
- The Genibo cannot understand if a command is uttered more than twice. Say it only once.
- Once a command is given, do NOT make any other noise until the Genibo moves.
- Once it understands a command, the Genibo will make 'ding dong dang' sound and follow the command.
- Voice will not be recognized while the robot is moving or is not ready to listen.
- Any noise coming from TV or radio can be very loud for the Genibo. Speak a command in a quiet place without TV or radio around. The Genibo will understand better.
- Use voice commands on 'Voice Command List' in this manual only.
- The Genibo may not act on a command if in a bad mood or having low intelligence. Love your the Genibo a lot all the time.

3 Voice Command List

Command Type	Action Type	Recognizable Word List (Including Derivatives)
Basic Commands	Move Forward	Go forward
	Move Back	Go backward, Go back, Back
	Sit Down	Sit down, Sit
	Lie Flat	Lie down, Down
	Stand Up	Stand up
	Turn Left	Turn left
	Turn Right	Turn right
Emotional Commands	Big Bow	Bow
	Shake Paws	Give me your paw, Paw
	Hi (Wave Paw)	Hello
	Bob Head (Show Off)	Good dog, Good boy, Good girl, Good
	Reflection After Discipline	Bad dog, Bad boy, Bad girl
	Bark	Bark
	Put Paws Up. Don't Move	Hands up, Hand up
	Sit and Wait	Wait, Stay
	Move Towards Human	Come here, Come
	Move Next to/Behind Human	Go away
Exercise and Trick Commands	Exercises	Exercises
	Trick actions	Show your trick, Roll over

Recording a Voice Memo

Leave simple memos to your family via the Genibo. The Genibo will help show your love to your family.

❶ Press '2', then OK, on the remote control. The Genibo will stop and sit and get ready to record a voice.

❷ If there is enough space to record a voice memo, the Genibo will display a (memo) code to be saved on the eye emoticon LED.

❸ A voice will say, "Leave your memo after the beep." After the beep, start recording.

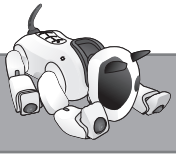
❹ Can be recorded up to 10 seconds. After finished, a voice says, "Ding dong dang~ Saving your recording data."
If there is a lot to record, divide it into several parts.

❺ Press "OK" again while recording, then recording will be finished immediately with a voice saying 'Saving complete.'
Press "ESC" while recording, recording will be canceled with a voice, and the robot will switch to Autonomous Mode.

❻ Once Saving is complete, the robot will switch to Autonomous Mode.

❼ If there is not enough space, a voice will say, "Not enough space. Delete a memo and try again." Then the robot will switch to Autonomous Mode.

❽ Up to 10 memos can be saved, and can be used as an alarm sound or a setting sound on Control Manager.



Playing and Deleting Voice Memos

To play or delete a recorded memo in the Genibo, follow the direction below.

❶ Click '3' then 'OK' on the remote control. The Genibo will stop all actions and speak a recorded memo.

❷ It will play the memo first recorded, and show memo number on LED.

❸ Press OK to stop playing. A voice will say, "Do you want to delete the memo?"

❹ Press OK to delete it. To cancel the deletion, press ESC or wait for 3 seconds.

❺ After deletion is complete, the next data will be played. If the deletion was canceled, the previous memo will play after the point when OK was pressed.

❻ To skip the memo, use the ◀ / ▶ left/right button.

❼ Once the memo is played out, a voice says, "No more memo to play." The Genibo will return to Autonomous Mode.

❽ Press "ESC" while playing a memo, play will be finished immediately and the robot will be back to Autonomous Mode.

[Tip] While recording, playing, and erasing a voice memo, the Genibo will not respond to external touch, a voice or a cliff.
Voice memo function will be stopped when the AC adapter is connected or the "Control Manager" program is connected.

Image Recognition

The Genibo performs image recognition through the camera installed on its nose and shows various reactions according to its result.

❶ The Genibo can recognize an object located within the 50-degree angle of vision from its head.

❷ Can recognize a human face, master's face (if registered), and a moving object.

❸ At a certain point during Autonomous Mode, or if the user presses '4' then OK on the remote control, the Genibo will attempt image recognition.

❹ During image recognition, the Genibo will remain sitting or standing for about 2 seconds.

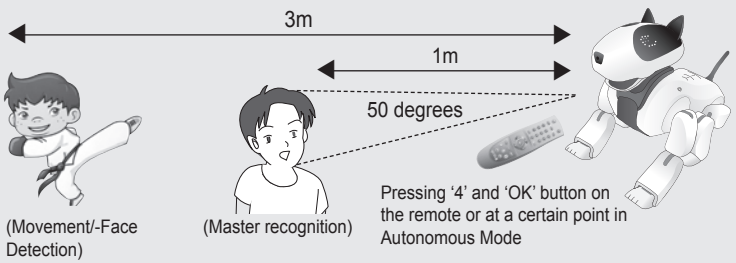
❺ Can recognize the movement of an object within range of 1~3 meters from its nose.

❻ Master's face can be best recognized within a distance of 1m.

❼ Face or master recognition is possibly done when the face looks straight at the camera. The Genibo cannot recognize profiles.

❽ Once an object is recognized through image recognition, the Genibo will make decisions on its own and show various behavior patterns.

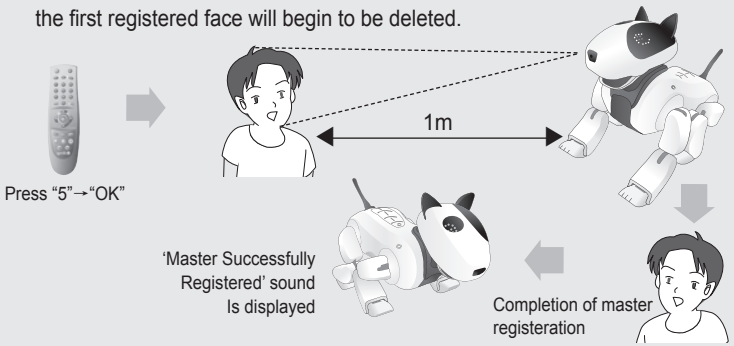
[Tip] In the dark, or in an environment where there is a backlight, the Genibo may not recognize well. Recognition depends heavily on environmental conditions.


3m
1m
50 degrees
(Movement/-Face Detection)
(Master recognition)
Pressing '4' and 'OK' button on the remote or at a certain point in Autonomous Mode

Registering Master's Face

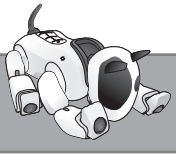
The Genibo can recognize its master through image recognition after the camera takes a picture of the face.
To recognize the master, the master's face must be registered in the Genibo first.

❶ Place the Genibo facing the user. Keep them apart about 1 meter.
❷ Press '5' then 'OK' on the remote control to start Register Master's Face.
❸ The Genibo will stop what it is doing, facing the person's face.
❹ The user must not move but look at the Genibo's nose for about 10~15 seconds.
❺ Once the Genibo finds the face, it will register the user's face as Master with a few 'clicks'.
❻ Once Register is complete, the Genibo will play a sound that indicates Register is complete.
❼ Up to 10 faces can be registered. If more than 10 faces are registered, faces from the first registered face will begin to be deleted.



[Tip] Register under bright light, not in the dark. Registering a face will take about 10 to 15 seconds.

[Tip] If the recording face is the same one which is already registered, the Genibo will whine and rock its head, and go into the Autonomous Mode.



Taking Pictures

Take pictures using the camera installed at the tip of the Genibo's nose. Using the remote control, send the Genibo to a desired place and take fun pictures.

❶ Press '6' then 'OK' on the remote control. The Genibo will stop what it is doing and get ready to take pictures.

❷ Once ready, the Genibo will start taking pictures. A voice will say, "Adjust the camera in a desired direction and press OK.".

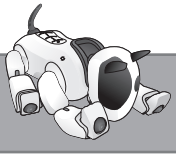
❸ Using direction buttons, adjust the camera's direction. (No need to press the 'HEAD' button)

❹ After adjusting, press OK. With a 'click' sound, the Genibo will start taking pictures. Keep pressing OK to continue taking pictures.

❺ If there is no remote control input for over 30 seconds, press ESC. The Genibo will switch to Autonomous Mode.

[Note] After taken, pictures can be checked after being saved to PC using the Genibo Control Manager.

[Tip] While taking pictures, the Genibo will not respond to external touch, a voice, or a cliff. If the user lifts up the Genibo or if the Genibo trips over, it will stop taking pictures and switch to Autonomous Mode.



Wireless LAN Connection and Disconnection (Connecting Control Manager)

To connect the Genibo and PC, connect to a wireless LAN of the Genibo first. (Available for optional purchase)

❶ Press '7' then OK on the remote control. The Genibo will stop what it is doing and get ready to connect to a wireless LAN.

❷ Once ready, a voice will say, "Connecting to wireless LAN," and wireless LAN connection will begin.

❸ Once connection is complete, a voice will say, "Wireless LAN connected," and the robot will switch to Autonomous Mode.

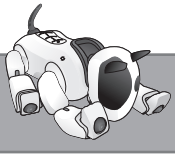
❹ If connection fails, try again twice. If it still fails, a voice will say, "Wireless LAN cannot be connected. Check if AP is on and try again," and the robot will switch to Autonomous Mode.

❺ While connection is being tried, press ESC to cancel. The robot will switch to Autonomous Mode.

❻ If wireless LAN is connected, the Genibo will speak, "Wireless LAN is already connected."

❼ Once wireless LAN is connected, the tail LED will blink blue.

[Tip] If 1 minute passes after Control Manager is closed, or if there is no PC connection for 5 minutes after wireless LAN connection, wireless LAN will automatically disconnect. Even if Control Manager is closed, and wireless LAN is not disconnected, it will be disconnected if there is a Play Contents command.



Instructions for Use

Running Games and Special Actions

Make the most of it with the Genibo through Touch & Touch Game and special actions.

1 Touch & Touch Game

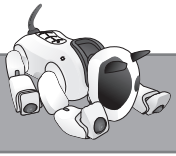
This game works when the Genibo's touch sensors are touched. (To locate touch sensors, see 'How to Touch the Genibo' in this manual.)
The Genibo makes an action asking to touch a certain area. When the area is touched, the Genibo will do a happy action; when another area is touched, sad action.
The more areas the user touches right, the happier the Genibo gets. It will show tricks too.

- Press '00 then OK' on the remote control. The Genibo will make a sound and get ready to start a game.
- Look at the Genibo's action carefully. There are certain areas that want to be touched. Touch the right touch sensor quickly.

2 Running Special Actions

The Genibo can do around 700 actions. Among them, only fun actions are grouped separately and can be run using the remote control.
Try them when you want to show them off to your friends.

- Find a desired action from the 'Action Command List' in this manual.
  Press the digit, then OK, on the remote control to see the special action.



Instructions for Use

Playing Contents

1 Playing manufacturer's contents

The Genibo features pop music, child music, and dances offered by the manufacturer. Watch the Genibo's extraordinary dance performance.

- From the 'List of Remote Control Codes and Dances' find a desired content, press the digit, then OK, on the remote control to watch dance performance.

2 Adding and playing user created contents. (can be used when the Control Manager option is purchased)

Using the Genibo Control Manager, the user can create their own contents. Or download contents made by other users from the Genibo website (www.genibo.com).
Various contents will allow the user to make the most out of the Genibo.

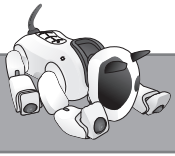
- Contents are assigned codes from 100 through 999 to be run. (3 basic dances from 100 to 102 are offered in the Genibo. The user must enter sounds directly. See 'How to Add Download' in this manual.)

[Tip] To play contents, press 'Content Code and OK.
(The eye emoticon LED will display the code.)

[Tip] Once contents start playing, series of contents will play in order until closed.

[Tip] Use the PAUSE and PLAY buttons on the remote to pause or replay contents. Use the STOP button to stop and switch to Autonomous Mode.
(Will switch to Autonomous Mode if 30 seconds passes with PAUSE pressed.)

[Tip] Press Switch Direction button to stop the content playing. Play previous/next contents or contents in previous/next category.



Instructions for Use

Utilizing the Genibo MENU

Use the 'MENU' button on the Genibo remote control to use the Genibo's various functions through voice guidance and play help.

- Press the 'MENU' button in Autonomous Mode. The Genibo will stop what it is doing and directions will begin.
- During the guide to 'MENU,' if the ESC button is pressed or no button is pressed for 10 seconds, the robot will switch to Autonomous Mode.
- When the robot speaks directions, select a digit to cancel the directions and run a command accordingly.

The Genibo Voice Directions

MENU

1 : Camera
2 : Voice
3 : Alarm
4 : Connect Wireless LAN
5 : Game
6 : Channel Settings
0 : Help
MENU : Listen Again

1 : Start Image Recognition
2 : Take Pictures
3 : Register a Master
0 : Listen Again

The Genibo Voice Directions

MENU

- 1 : Camera
- **2 : Voice**
- 3 : Alarm
- 4 : Connect Wireless LAN
- 5 : Game
- 6 : Channel Settings
- 0 : Help
- MENU : Listen Again

→

- 1 : Start Voice Command
- 2 : Record
- 3 : Play Recordings / Delete Individual Recordings
- 4 : All Recordings
- 0 : Listen Again

MENU

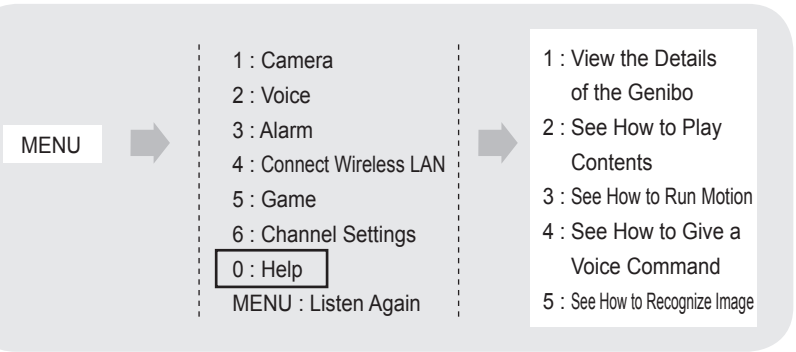
- 1 : Camera
- 2 : Voice
- **3 : Alarm**
- 4 : Connect Wireless LAN
- 5 : Game
- 6 : Channel Settings
- 0 : Help
- MENU : Listen Again

→

- 1 : Add a Wake-up Call
- 2 : Add an Alarm
- 3 : Listen to Wake-up Calls / Delete Wake-up Calls
- 4 : Listen to Alarms / Delete Alarms
- 0 : Listen Again

MENU

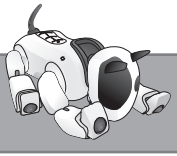
- 1 : Camera
- 2 : Voice
- 3 : Alarm
- **4 : Connect Wireless LAN**
- **5 : Game**
- **6 : Channel Settings**
- 0 : Help
- MENU : Listen Again


MENU
1 : Camera
2 : Voice
3 : Alarm
4 : Connect Wireless LAN
5 : Game
6 : Channel Settings
0 : Help
MENU : Listen Again
1 : View the Details of the Genibo
2 : See How to Play Contents
3 : See How to Run Motion
4 : See How to Give a Voice Command
5 : See How to Recognize Image

[Tip] If there is no additional command from the remote control for 10 to 15 seconds, it will be considered as the ESC button pressed.

[Tip] Press the ESC button to move to the upper stage or get out of the MENU and switch to Autonomous Mode.

[Tip] When changing remote's channels, changes must apply to both the Genibo and the remote control. If the Genibo does not understand a remote's command after channel changes, change the remote control only, up to the channel number used just before. (If change is made to the remote control only, press OK and click the channel number. At time of release, the default is set to 0.)



Instructions for Use

How to Download/Save a file

The Genibo features some dance contents (Tell Me, Girls' Generation, Nobody) at time of release. The user can add their own mp3 files according to the following to see the Genibo's great dance performance.

❶ See 'Installing System Software' in this manual and install the program on your PC.

❷ Open the cover pressing the "PUSH" position on the bottom of the Genibo and lifting it up carefully, pull out the USB memory located in the left side of the abdomen, and connect the memory to the USB port of PC.

[Tip] Once the bottom cover is opened, you can see USB memory with a tied string. Pull the string to seperate the USB memory from the Genibo.

[Tip] Use caution to prevent any damages on the product and any personal injury especially nails. The cover is designed for the children not to open easily.

❸ Save mp3 files of Tell Me, Girls' Generation, and Nobody to /mp3/ directory.

❹ Name mp3 files in English (No Korean), 15 characters long.

e.g.) Tell Me : tellme.mp3

Girls' Generation : girlsgeneration.mp3

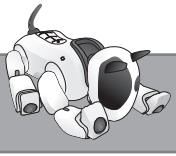
Nobody : nobody.mp3

❺ Once Save is complete, separate the USB memory from PC, put it back to the Genibo, and close the cover.

❻ Turn on the Genibo, run the Control Manager Program, and select and set a remote code from the Edit Contents window and the action title provided.

[Tip] Must run the Control Manager Program to connect the saved mp3 file to the remote code.

[Note] Use caution not to allow foreign matter into the Genibo after separating the abdomen case. May cause electric shock or injury



Instructions for Use

How to Upgrade Firmware

The Genibo supports software upgrades to maintain the best condition. Follow the directions below to upgrade.

❶ See ‘Installing System Software’ in this manual and install the program on your PC.

❷ Open the cover pressing the “PUSH” position on the bottom of the Genibo and lifting it up carefully, pull out the USB memory located in the left side of the abdomen, and connect the memory to the USB port of PC.

[Tip] Once the bottom cover is opened, you can see USB memory with a tied string. Pull the string to seperate the USB memory from the Genibo.

[Tip] Use caution to prevent any damages on the product and any personal injury especially nails. The cover is designed for the children not to open easily.

❸ Visit the Genibo’s website (www.genibo.com), register the product to download the latest S/W from the S/W Upgrade menu.

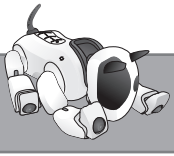
❹ Download S/W to your PC, extract it, and copy it to /updates/ directory in USB memory.

❺ Separate the USB memory from PC, put it back into the robot, and close the abdomen case.

❻ Turn on the Genibo. The Genibo will wake up and go into Autonomous Mode.

❼ When 3 minutes passes after Autonomous Mode started, press ‘9’ and ‘OK’ on the remote control. The Genibo will start upgrade. With a message “Please wait until upgrade is complete,” upgrade file install will begin.

❽ Once upgrade is complete, the Genibo will speak, “Upgrade is complete. Robot is restarting,” turn off, and automatically turn back on.



Instructions for Use

Installing System Software

This software allows user's PC to recognize USB memory included in the Genibo.
Install the the Genibo System Software CD included in the package to your computer.

[Tip] The Genibo uses Linux as a basic operating system; all hardware is provided as supported by Linux. Software to be installed will allow the ext3 file system of Linux to be recognized on Windows.

How to Install

❶ Run the installation CD. The window below will be displayed.
Click Next to proceed to the next stage.

❷ Check the license agreement, click on 'I agree' if you agree, and proceed to the next stage.
If you do not agree, cancel the installation.

❸ Click 'Next' while 'Enable the Read-only Option' is not checked.

❹ Click ‘Next’ while ‘Enable UTF-8 encoding’ is checked.

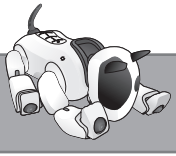
❺ Click ‘Next’ while ‘Enable the large-file feature’ is checked to install the program.

❻ ‘Installing program’ pop-up window

❼ Set ‘Select a Driver’ to default.
Click ‘Next’ to proceed to the next stage.

❽ Check the program content.
Click ‘Next’ to proceed to the final stage.

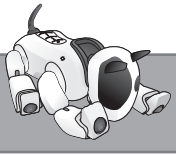
❾ Install is complete. Click ‘Finish’ to close Install Wizard.
After install is complete, reboot to make the system work properly.



Genibo Specifications

Category	Specifications
Size	192 x 334 x 300mm(W X L X H)
Weight	1.6kg
Touch Sensor	1 on the head, 1 on the nose, 4 on the back, 2 on the flank(left and right)
Built-in Sensors	Camera, Distance Sensor, Microphone
Battery Info.	Li-ion battery, 7.4V, 2,200mAh Charge Time : approximately 150 minutes Run Time : Approximately 90 minutes
AC adapter	Input Voltage : AC 100 ~ 240V at 50/60Hz Output Voltage : DC 9V, 2.5

※ Battery charge time and run time may vary depending on term of use and conditions.



Troubleshooting

Power does not turn on.

- Check if the main power switch on the Genibo's abdomen is on.
- The battery may be completely discharged. Use an adapter and charge the battery.

[Tip] Before charging, must check if the main power switch on the abdomen is on.

Charging does not start.

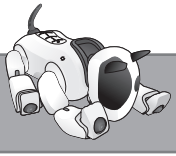
- Check if the main power switch on the Genibo's abdomen is on.
  If the switch is not on, the battery will not be charged.
- Check if the adapter is properly plugged.
- Check the status of the Genibo's tail LED.
  (LED is red if being charged; turns blue if charging is complete.)

The Genibo does not move well but remains sitting or lying flat.

- The battery may be running low. Or the Genibo may have run out of energy or be in a bad mood. Check the power status and charge the battery.
- The Genibo may have switched to Sleep mode and be asleep. If not touched for some time, the Genibo will automatically turn off.

The Genibo does not walk well; collapses often; does not move well.

- The Genibo moves best on a flat, even floor, such as a wooden floor or floor covered with laminated paper.
- On a rubber floor with too much friction, or on a carpeted floor, the Genibo may not move naturally because of pressure on its joints.
  Long-term use in such environment may result in failure.



Troubleshooting

The Genibo's legs are limp.

- If left hanging up in the air too long, the Genibo may have limp legs. In this case place the Genibo down on the floor and keep it balanced. The Genibo will then wake up.
- The Genibo's joints get loosened as power turns off if charged or asleep for too long.

The Genibo does not respond to the remote control.

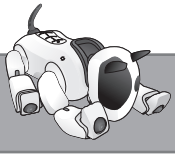
- Check the battery status of the remote control.
- Check if there is an obstacle between the Genibo and remote control
- The Genibo's channel may not agree with that of the remote control. At time of release, the default is set to 0. If channels disagree, press 0 through 9 while OK is pressed, and remove hand from the OK button. Channel will change to the number pressed. Repeat this and find the right channel.

The Genibo stopped and does not move even if eye emoticon LED is on.

- Check if the Genibo has enough battery power.
- Turn off the Genibo, then turn it back on. If the problem does not improve, contact our service center.

The Genibo's joints, such as legs, make a 'cracking' sound.

- To protect the Genibo's joints, a slip-gear mechanism is featured. When overloaded, a joint makes a 'cracking' sound because this slip gear works properly.
- If the noise persists for no apparent reason, contact our service center.



Service Information

Consumer Rights

All consumers have 'privileged rights' to receive free-of-charge service for six (6) months from the purchase date in case the product suffers a failure during use. However, in the event of failure arising due to a mistake on consumer's part or due to a natural disaster, any service related to the failure will be charged even during the free service period.

Liability for Paid Service (Customer Liable for Costs)

The service requested will be considered payable during the free service period in the event of the following:

1. Not product failure.

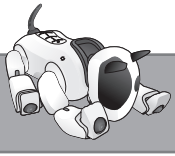
- Any request for service that is not related to product failure will be chargeable. Please read your User Manual carefully. (If repair is impossible, it will be subject to special standards.)

2. Failure occurred due to a mistake on consumer's part.

- Failure occurred due to abnormal power supply or a defect in the power supply device.
- Failure occurred because foreign matter was allowed in or absorbed in the product.
- Product damage or functional failure because the product was dropped or shocked.
- The user arbitrarily disassembled the product, thereby losing or damaging a part/parts.
- The exterior was damaged or deformed by an organic solvent, such as thinner or benzene.
- Failure occurred because the user did not abide by 'Important Safety Instructions' in User Manual.
- Failure occurred due to an external cause or a user's mistake, rather than a defect in the product.

3. Other reasons

- Failure occurred due to natural disasters (lightening, fire, storm, floor, gas, sea wind, earthquake, etc.)
- In the event that spare parts, such as a battery, are exchanged.



Service Information

Product Warranty

Product Description: Intelligent Pet Robot “Genibo” Model Name: Genibo-QD

Date of Purchase: YY MM DD

Serial No.:

Customer Name: Telephone:

Address:

dASAROBOT

Retain this Warranty stating the date of purchase and provide it when asking for repair to receive satisfactory service.

1. Quality Assurance of this product is hereby stated and thus warranted.
2. Warranty period will be calculated including the purchase date; ensure that the purchase date has been written down. (If the purchase date cannot be confirmed, the warranty period will be considered as beginning 12 months after the manufacturing date.)
3. This Warranty will never be re-issued; carefully retain it with User Manual.

Consumer Compensation Info.

<table>
<tr><th colspan="2" rowspan="2">Trouble Types</th><th colspan="2">Compensation Details</th></tr>
<tr><th>Within Warranty Period</th><th>After Warranty Period</th></tr>
<tr><td rowspan="10">Performance, functional failure naturally occurred during normal use</td><td>Major repair required within ten days of purchase</td><td>Exchange or refund</td><td></td></tr>
<tr><td>Repair of important parts required within one month of purchase</td><td>Exchange</td><td></td></tr>
<tr><td>Major repair for exchanged product required within one month of exchange</td><td rowspan="2">Refund</td><td rowspan="2"></td></tr>
<tr><td>If exchange is impossible</td></tr>
<tr><td>Product defect</td><td>Free-of-charge repair</td><td></td></tr>
<tr><td>Defect recurred (4th time) even after repair of the defect</td><td rowspan="6">Exchange or refund</td><td rowspan="3"></td></tr>
<tr><td>Failure of several parts recurred (5th time) after 4 times of repair</td></tr>
<tr><td>Irreparable</td></tr>
<tr><td>Irreparable because there is no spare part for repair</td><td rowspan="3">Refund by adding 10% to the depreciated amount</td></tr>
<tr><td>Serviceman lost the product that consumer provided for repair.</td></tr>
<tr><td>Damage caused during transportation or installation of the product</td></tr>
<tr><td rowspan="2">Performance & functional Failure on purpose or user's mistake</td><td>Reparable</td><td></td><td></td></tr>
<tr><td>Irreparable because there is no spare part for re pair</td><td>Exchange after an amount equivalent of repair charge is paid.</td><td></td></tr>
<tr><td colspan="2">• Failure occurred due to natural disasters (fire, sea water, gas, earthquake, flood, storm)
• Exchange of spare parts worn out naturally
• Failure occurred due to abnormal power supply or defects in the supply device
• Due to an external factor, rather than a defect in the product.
• Failure occurred because the product was repaired or remodelled by someone other than a repairman of our company's sale store or Customer Support Centre.</td><td>Paid repair</td><td>Paid repair</td></tr>
</table>

• For any problem or inconvenience during use of your product, please contact DASAROBOT CUSTOMER SERVICE CENTER.
• Warranty Period is 12 months. (Except for spare parts, such as a battery.)

• Service Request and Information Customer Service Center:
Telephone +82-32-329-5551 (ext. 112), 10:00-17:00 (except holidays)

DASAROBOT CO., LTD.
11th floor, Bucheon Techno Park Bldg. 401, Yakdae-dong, Wonmi-gu, Bucheon-city, Gyunggi-do, Republic of Korea, 420-734

Service Request & Information

+82-32-329-5551 (ext. 112)

10:00~17:00 (except holidays)

www.dasarobot.com
www.genibo.com